

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2012 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin***

<b>RD2085</b>	Overall LMA Rating	Total LMA Miles						
<b>Reclamation District No. 2085 Kasson</b>	<b>U</b>	<b>6.18</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	2.60		2.60	42.07%	0.05			
Trim / Thin Trees	0.25		0.25	4.05%				
Encroachments	0.04	0.01	0.08	1.29%	0.51			
Animal Control	0.08		0.08	1.29%				
<i>Supplemental</i>								
DWR Erosion Survey		0.02	0.08	1.29%				
<i>LMA Totals:</i>	2.97	0.03	3.09	50.00%	0.56	0.00	0.00	0.00

  

<b>Unit No. 01 San Joaquin River LB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2085</b>	<b>U</b>	<b>5.20</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.73		1.73	33.27%	0.05			
Trim / Thin Trees	0.25		0.25	4.81%				
Encroachments	0.03	0.01	0.07	1.35%	0.51			
Animal Control	0.08		0.08	1.54%				
<i>Supplemental</i>								
DWR Erosion Survey		0.02	0.08	1.54%				
<i>Unit Totals:</i>	2.09	0.03	2.21	42.50%	0.56	0.00	0.00	0.00

  

<b>Unit No. 02 San Joaquin River</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2085</b>	<b>U</b>	<b>0.69</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.60		0.60	86.96%				
Encroachments	0.01		0.01	1.45%				
<i>Unit Totals:</i>	0.61	0.00	0.61	88.41%	0.00	0.00	0.00	0.00

  

<b>Unit No. 03 San Joaquin River</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2085</b>	<b>U</b>	<b>0.29</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.27		0.27	93.10%				
<i>Unit Totals:</i>	0.27	0.00	0.27	93.10%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2085 Kasson**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2085 Kasson**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	5.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	05/16/2012 - 05/16/2012		11/07/2012 - 11/07/2012	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan		Ralph Timan	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Earthen Levee	Flood Preparedness & Training	LS	A		°	°	7
						Ma		°	°	
DWR ID: DWR_RD2085_01_s_2012_7										
2			Earthen Levee	Operations & Maintenance Manuals	LS	A		°	°	9
						Ma		°	°	
DWR ID: DWR_RD2085_01_s_2012_9										
3			Earthen Levee	Emergency Supplies & Equipment	LS	A		°	°	14
						Ma		°	°	Y
DWR ID: DWR_RD2085_01_s_2012_14										
4	0.41	0.64	Earthen Levee	Vegetation	LS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.723140 ° -121.299541 °	37.721889 ° -121.296096 °	1 Y
						Ma				
DWR ID: DWR_RD2085_01_s_2012_1										
5	0.47	0.47	Earthen Levee	Encroachments	WS	U	PI : Pipe Inspector Comments: Pipe from abandoned drainage pump penetrates levee with no closure devices.	37.723396 ° -121.298572 °	37.723396 ° -121.298572 °	2 Y
						Ma				
DWR ID: DWR_RD2085_01_s_2012_2										
6	0.51	2.08	Earthen Levee	Vegetation	WS	A	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.723179 ° -121.298022 °	37.708368 ° -121.277493 °	31 Y
						Ma				
DWR ID: DWR_RD2085_01_s_2012_31										
7	0.76	0.76	Earthen Levee	Animal Control	LS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.720699 ° -121.294710 °	37.720699 ° -121.294710 °	5 Y
						Ma				
DWR ID: DWR_RD2085_01_s_2012_5										
8	1.15	1.15	Earthen Levee	Animal Control	CR	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Multiple rodent burrows on crown.	37.715820 ° -121.291183 °	37.715820 ° -121.291183 °	25 Y
						Ma				
DWR ID: DWR_RD2085_01_f_2012_25										
9	1.18	1.18	Earthen Levee	Animal Control	LS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: 6-7 burrows present near levee toe.	37.715569 ° -121.290892 °	37.715569 ° -121.290892 °	40 Y
						Ma				
DWR ID: DWR_RD2085_01_s_2012_40										
10	1.28	1.32	Earthen Levee	Encroachments	LS	M	DT : Ditch Inspector Comments: Drainage ditch at levee toe.	37.714265 ° -121.289641 °	37.714056 ° -121.289069 °	6 Y
						En				
DWR ID: DWR_RD2085_01_s_2012_6										
11	1.35	1.35	Earthen Levee	Encroachments	CR	M	PI : Pipe	37.714048 ° -121.288410 °	37.714048 ° -121.288410 °	8 Y
						Ma				
DWR ID: DWR_RD2085_01_s_2012_8										
12	1.98	1.98	Earthen Levee	Encroachments	WSA/W	PI : Pipe		37.708838 ° -121.279253 °	37.708838 ° -121.279253 °	17 Y
						Ma				
DWR ID: DWR_RD2085_01_s_2012_17										
13	1.98	2.44	Earthen Levee	Encroachments	LS	M	DT : Ditch Inspector Comments: Concrete-lined ditch near levee toe.	37.708737 ° -121.279087 °	37.703893 ° -121.274605 °	18 Y
						En				
DWR ID: DWR_RD2085_01_s_2012_18										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
14	2.12	2.37	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.708055 ° -121.276920 °	37.704947 ° -121.274807 °	30
								DWR ID: DWR_RD2085_01_f_2012_30		
15	2.24	2.26	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 12/04/2012: The erosion has progressed remarkably toward levee, extended to the up- and downstream of the original pocket erosion. Trees and dense bush present at the site. Animal burrow holes are visible, and possibly can cause seepage. 09/22/2010: No significant changes observed. There is little visibility due to seasonal grass on the berm and slope. 08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2012 Site ID:RD2085U01RM66.5]	37.703094 ° 121.274894 °	37.703094 ° 121.274894 °	38 Y
								DWR ID:		
16	2.45	2.45	Earthen Levee	Trim / Thin Trees	CR	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Trim tree up 12' over roadway.	37.703707 ° -121.274597 °	37.703707 ° -121.274597 °	41 Y
								DWR ID: DWR_RD2085_01_s_2012_41		
17	2.51	2.51	Earthen Levee	Underseepage Relief Wells	LS	A/W Ma		37.702903 ° -121.274860 °	37.702903 ° -121.274860 °	20
								DWR ID: DWR_RD2085_01_s_2012_20		
18	2.71	2.91	Earthen Levee	Vegetation	LS	C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Landside toe is not visible due to vegetation.	37.700179 ° -121.276165 °	37.697686 ° -121.278048 °	43
								DWR ID: DWR_RD2085_01_s_2012_43		
19	2.75	2.75	Earthen Levee	Encroachments	WS	C Ma	PI : Pipe Inspector Comments: Trash present at crown from pump platform debris.	37.699662 ° -121.276324 °	37.699662 ° -121.276324 °	21
								DWR ID: DWR_RD2085_01_s_2012_21		
20	3.24	3.24	Earthen Levee	Encroachments	WS	M Ma	PI : Pipe Inspector Comments: Steel pipe daylights on water side just below barbed wire fence. Remnants of a turnout and collar on land side. Condition of abandoned pipe under levee is unknown.	37.693439 ° -121.277702 °	37.693439 ° -121.277702 °	46 Y
								DWR ID: DWR_RD2085_01_s_2012_46		
21	3.28	3.28	Earthen Levee	Animal Control	WSA/W	Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.692916 ° -121.277929 °	37.692916 ° -121.277929 °	15 Y
								DWR ID: DWR_RD2085_01_s_2012_15		
22	3.31	3.31	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: No rodents visible, but numerous, >10, burrows on landside. 1 burrow on waterside.	37.692453 ° -121.278037 °	37.692453 ° -121.278037 °	44 Y
								DWR ID: DWR_RD2085_01_s_2012_44		

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
23	3.32	3.40	Earthen Levee	Vegetation	LS	C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.692347 ° -121.278055 °	37.691213 ° -121.277557 °	48
DWR ID: DWR_RD2085_01_s_2012_48										
24	3.33	3.33	Earthen Levee	Encroachments	WS	M Ma	PI : Pipe Inspector Comments: Pipe missing flap gate and positive closure device on waterside hinge point.	37.691969 ° -121.278093 °	37.691969 ° -121.278093 °	22
DWR ID: DWR_RD2085_01_s_2012_22										
25	3.37	3.37	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.691680 ° -121.277925 °	37.691680 ° -121.277925 °	47 Y
DWR ID: DWR_RD2085_01_s_2012_47										
26	3.46	3.46	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.690532 ° -121.276993 °	37.690532 ° -121.276993 °	16
DWR ID: DWR_RD2085_01_s_2012_16										
27	3.46	3.46	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.690532 ° -121.276993 °	37.690532 ° -121.276993 °	19
DWR ID: DWR_RD2085_01_s_2012_19										
28	3.58	3.71	Supplemental	DWR Erosion Survey	WSA/W	Ma	Inspector Comments: 12/04/2012: This site has been documented before, and a cost estimate to repair has been prepared dated 05/09/2010. The fresh cut shows the erosion is developing. The berm width is at least 42 feet. Sticks were placed at three location along the river bank, with 3 sticks 5 feet apart at each location. [2012 Site ID:RD2085U01RM67.7]	37.688545 ° -121.276298 °	37.688545 ° -121.276298 °	39 Y
DWR ID:										
29	3.63	4.01	Earthen Levee	Vegetation	WS	C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.688226 ° -121.276598 °	37.683106 ° -121.274964 °	51
DWR ID: DWR_RD2085_01_s_2012_51										
30	3.63	3.84	Earthen Levee	Vegetation	LS	C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.688212 ° -121.276658 °	37.685226 ° -121.276556 °	26
DWR ID: DWR_RD2085_01_s_2012_26										
31	3.64	3.70	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.688175 ° -121.276740 °	37.687047 ° -121.276747 °	37
DWR ID: DWR_RD2085_01_f_2012_37										
32	3.72	3.72	Earthen Levee	Encroachments	CRA/W	Ma	PI : Pipe Inspector Comments: Discharge from River Club lake.	37.686977 ° -121.276804 °	37.686977 ° -121.276804 °	24
DWR ID: DWR_RD2085_01_s_2012_24										
33	3.78	3.78	Earthen Levee	Trim / Thin Trees	CR	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Tree needs to be trimmed up 12' over roadway.	37.686081 ° -121.276741 °	37.686081 ° -121.276741 °	52 Y
DWR ID: DWR_RD2085_01_s_2012_52										
34	3.89	3.97	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.684509 ° -121.276243 °	37.683472 ° -121.275570 °	27
DWR ID: DWR_RD2085_01_s_2012_27										
35	3.95	3.95	Earthen Levee	Encroachments	CRA/W	En	PI : Pipe	37.683445 ° -121.275848 °	37.683445 ° -121.275848 °	10 Y
DWR ID: DWR_RD2085_01_s_2012_10										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
36	3.98	3.98	Earthen Levee	Animal Control	WS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.683403 ° -121.275372 °	37.683403 ° -121.275372 °	53 Y
DWR ID: DWR_RD2085_01_s_2012_53									
37	4.14	4.14	Earthen Levee	Trim / Thin Trees	WS Ma	T1 : Trim trees to at least five feet above ground level.	37.682125 ° -121.272988 °	37.682125 ° -121.272988 °	28 Y
DWR ID: DWR_RD2085_01_s_2012_28									
38	4.18	4.45	Earthen Levee	Vegetation	WS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.681886 ° -121.272333 °	37.681332 ° -121.267518 °	54 Y
DWR ID: DWR_RD2085_01_s_2012_54									
39	4.23	4.33	Earthen Levee	Trim / Thin Trees	WS Ma	T1 : Trim trees to at least five feet above ground level.	37.681746 ° -121.271419 °	37.681882 ° -121.269607 °	29 Y
DWR ID: DWR_RD2085_01_s_2012_29									
40	4.29	4.32	Earthen Levee	Trim / Thin Trees	LS Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Trees on levee slope near gate.	37.681765 ° -121.270375 °	37.681868 ° -121.269917 °	11 Y
DWR ID: DWR_RD2085_01_s_2012_11									
41	4.32	4.37	Earthen Levee	Vegetation	LS En	V6 : Landscaping	37.681863 ° -121.269856 °	37.681640 ° -121.269046 °	33 Y
DWR ID: DWR_RD2085_01_s_2012_33									
42	4.37	4.37	Earthen Levee	Trim / Thin Trees	WS Ma	T1 : Trim trees to at least five feet above ground level.	37.681606 ° -121.268942 °	37.681606 ° -121.268942 °	13 Y
DWR ID: DWR_RD2085_01_s_2012_13									
43	4.38	4.38	Earthen Levee	Trim / Thin Trees	LS Ma	T5 : Tree stumps.	37.681605 ° -121.268882 °	37.681605 ° -121.268882 °	32 Y
DWR ID: DWR_RD2085_01_s_2012_32									
44	4.49	5.16	Earthen Levee	Vegetation	WS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.681203 ° -121.266807 °	37.675008 ° -121.269265 °	55 Y
DWR ID: DWR_RD2085_01_s_2012_55									
45	4.61	4.71	Earthen Levee	Vegetation	LS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.680394 ° -121.264707 °	37.676892 ° -121.269781 °	34 Y
DWR ID: DWR_RD2085_01_s_2012_34									
46	4.71	4.71	Earthen Levee	Encroachments	LS Ma	ST : Stairway Inspector Comments: Stairs for monitoring station on landside slope.	37.679451 ° -121.265453 °	37.679451 ° -121.265453 °	35 Y
DWR ID: DWR_RD2085_01_s_2012_35									
47	4.71	4.71	Earthen Levee	Encroachments	WS En	BU : Building Inspector Comments: Monitoring station on waterward side.	37.679451 ° -121.265453 °	37.679451 ° -121.265453 °	36 Y
DWR ID: DWR_RD2085_01_s_2012_36									
48	4.81	4.87	Earthen Levee	Vegetation	LS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.678321 ° -121.266612 °	37.678073 ° -121.267635 °	56 Y
DWR ID: DWR_RD2085_01_s_2012_56									
49	4.92	5.01	Earthen Levee	Vegetation	WS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.677882 ° -121.268440 °	37.677072 ° -121.269667 °	57 Y
DWR ID: DWR_RD2085_01_s_2012_57									

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Fall 2012

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	3
Start Levee Mile	
End Levee Mile	
Location	Water Side
Category	Earthen Levee
Item	Emergency Supplies & Equipment

View of flood fight emergency supplies.

mkhashch\_f\_20121119\_793.JPG



Levee Mile Report Line	4
Start Levee Mile	0.41
End Levee Mile	0.64
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of tall vegetation on landside slope obstructing visibility.

mkhashch\_f\_20121119\_787.JPG



Levee Mile Report Line	5
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Drainage discharge pipe penetrates levee with no closure device.

mkhashch\_f\_20120927\_173.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	5
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Opening on landside appears to consist of melted poly pipe halfway up levee slope. Opening on waterside is heavily corroded steel pipe.

mkhashch\_f\_20120927\_174.jpg



Levee Mile Report Line	5
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Water Side
Category	Earthen Levee
Item	Encroachments

04/28/2011 Area around discharge pipe appears to be in an area of erosion. Area was found after weeds were cleared.

mkhashch\_f\_20120927\_175.jpg



Levee Mile Report Line	6
Start Levee Mile	0.51
End Levee Mile	2.08
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of acceptable vegetation control on waterside slope.

mkhashch\_f\_20121119\_791.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	8
Start Levee Mile	1.15
End Levee Mile	1.15
Location	Crown
Category	Earthen Levee
Item	Animal Control

View of multiple rodent burrows on levee crown.

mkhashch\_f\_20121119\_788.JPG



Levee Mile Report Line	9
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Land Side
Category	Earthen Levee
Item	Animal Control

11/03/2011 Several burrows present.

mkhashch\_f\_20120927\_189.jpg



Levee Mile Report Line	9
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Land Side
Category	Earthen Levee
Item	Animal Control

11/03/2011 Second photo more burrows in the same location.

mkhashch\_f\_20120927\_190.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	11
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Crown
Category	Earthen Levee
Item	Encroachments

Photo of anti siphon at waterside shoulder.

mkhashch\_f\_20120927\_176.jpg



Levee Mile Report Line	15
Start Levee Mile	2.24
End Levee Mile	2.26
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking downstream

SJR2012\_RD2085U01RM66.5\_1.jpg



Levee Mile Report Line	15
Start Levee Mile	2.24
End Levee Mile	2.26
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking upstream

SJR2012\_RD2085U01RM66.5\_2.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	16
Start Levee Mile	2.45
End Levee Mile	2.45
Location	Crown
Category	Earthen Levee
Item	Trim / Thin Trees

11/03/2011 Tree needs to be trimmed up to a minimum of 12' over the roadway.

mkhashch\_f\_20120927\_191.jpg



Levee Mile Report Line	20
Start Levee Mile	3.24
End Levee Mile	3.24
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Photo of pipe penetration dishcharge off landside slope.

mkhashch\_f\_20120927\_196.jpg



Levee Mile Report Line	21
Start Levee Mile	3.28
End Levee Mile	3.28
Location	Water Side
Category	Earthen Levee
Item	Animal Control

04/28/2011 Fresh burrow in center of picture, "porch" extends to the grass line.

mkhashch\_f\_20120927\_180.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	22
Start Levee Mile	3.31
End Levee Mile	3.31
Location	Land Side
Category	Earthen Levee
Item	Animal Control

11/03/2011 Landside burrows.

mkhashch\_f\_20120927\_194.jpg



Levee Mile Report Line	22
Start Levee Mile	3.31
End Levee Mile	3.31
Location	Land Side
Category	Earthen Levee
Item	Animal Control

11/03/2011 More landside burrows at same location.

mkhashch\_f\_20120927\_195.jpg



Levee Mile Report Line	25
Start Levee Mile	3.37
End Levee Mile	3.37
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Rodent holes have been flagged for repair.

mkhashch\_f\_20120927\_197.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	28
Start Levee Mile	3.58
End Levee Mile	3.71
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking downstream. At the downstream end the erosion occurring at a spur levee.

SJR2012\_RD2085U01RM67.7\_1.jpg



Levee Mile Report Line	28
Start Levee Mile	3.58
End Levee Mile	3.71
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking downstream at the erosion at the spur levee

SJR2012\_RD2085U01RM67.7\_2.jpg



Levee Mile Report Line	33
Start Levee Mile	3.78
End Levee Mile	3.78
Location	Crown
Category	Earthen Levee
Item	Trim / Thin Trees

11/03/2011 Tree needs to be trimmed up to a minimum of 12' over the roadway.

mkhashch\_f\_20120927\_199.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Fall 2012

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	35
Start Levee Mile	3.95
End Levee Mile	3.95
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of pipe penetrating waterside slope.  
05/16/2012

mkhashch\_f\_20120927\_177.jpg



Levee Mile Report Line	35
Start Levee Mile	3.95
End Levee Mile	3.95
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of siphon breaker valve on landside hinge.  
05/16/2012

mkhashch\_f\_20120927\_178.jpg



Levee Mile Report Line	36
Start Levee Mile	3.98
End Levee Mile	3.98
Location	Water Side
Category	Earthen Levee
Item	Animal Control

11/03/2011 Burrow on waterside.

mkhashch\_f\_20120927\_200.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	37
Start Levee Mile	4.14
End Levee Mile	4.14
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

11/03/2011 Tree on waterside needs to be trimmed up 5' over slope and up to a minimum of 12' over the roadway.

mkhashch\_f\_20120927\_183.jpg



Levee Mile Report Line	38
Start Levee Mile	4.18
End Levee Mile	4.45
Location	Water Side
Category	Earthen Levee
Item	Vegetation

11/03/2011 Waterside vegetation needs to be maintained on the top 20' of the waterside slope.

mkhashch\_f\_20120927\_201.jpg



Levee Mile Report Line	41
Start Levee Mile	4.32
End Levee Mile	4.37
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Updated photo of encroachments on landside toe.

mkhashch\_f\_20121119\_792.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	42
Start Levee Mile	4.37
End Levee Mile	4.37
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

11/03/2011 Tree needs to be limbed up to 5' above the ground on the waterside for visibility.

mkhashch\_f\_20120927\_179.jpg



Levee Mile Report Line	43
Start Levee Mile	4.38
End Levee Mile	4.38
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

11/03/2011 Large stump on landside slope.

mkhashch\_f\_20120927\_185.jpg



Levee Mile Report Line	44
Start Levee Mile	4.49
End Levee Mile	5.16
Location	Water Side
Category	Earthen Levee
Item	Vegetation

11/03/2011 Waterside vegetation needs to be managed on the top 20' of the slope.

mkhashch\_f\_20120927\_202.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	46
Start Levee Mile	4.71
End Levee Mile	4.71
Location	Land Side
Category	Earthen Levee
Item	Encroachments

04/28/2011 Stairs on landside slope for monitoring station.

mkhashch\_f\_20120927\_187.jpg



Levee Mile Report Line	47
Start Levee Mile	4.71
End Levee Mile	4.71
Location	Water Side
Category	Earthen Levee
Item	Encroachments

04/28/2011 Monitoring station.

mkhashch\_f\_20120927\_188.jpg



Levee Mile Report Line	48
Start Levee Mile	4.81
End Levee Mile	4.87
Location	Land Side
Category	Earthen Levee
Item	Vegetation

11/03/2011 Landside vegetation needs to be maintained for the full landside slope and 15' beyond the toe.

mkhashch\_f\_20120927\_203.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	49
Start Levee Mile	4.92
End Levee Mile	5.01
Location	Water Side
Category	Earthen Levee
Item	Vegetation

11/03/2011 Waterside vegetation has been sprayed, but needs to be removed so the top 20' of the slope is visible.

mkhashch\_f\_20120927\_204.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2085 Kasson**

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River				0.69
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	05/16/2012 - 05/16/2012		11/07/2012 - 11/07/2012	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan		Ralph Timan	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.69	11/07/2012 11/07/2012	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.04	0.64	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.705400 ° -121.274337 °	37.713405 ° -121.269828 °	3 Y
DWR ID: DWR_RD2085_02_f_2012_3										
2	0.67	0.67	Earthen Levee	Encroachments	CR	M Ma	EQ : Equipment Inspector Comments: Heavy equipment is being stored on the levee crown.	37.713820 ° -121.269685 °	37.713820 ° -121.269685 °	1 Y
DWR ID: DWR_RD2085_02_s_2012_1										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Fall 2012

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.69	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	1
Start Levee Mile	0.04
End Levee Mile	0.64
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of tall vegetation obstructing visibility of waterside slopes.

mkhashch\_f\_20121119\_789.JPG



Levee Mile Report Line	2
Start Levee Mile	0.67
End Levee Mile	0.67
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of farming equipment being stored on the levee crown at the end of the spur levee.

mkhashch\_f\_20121119\_790.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2012 Levee Inspection Results**

**Reclamation District No. 2085 Kasson**

Waterway			Bank	Unit Miles
Unit No. 03 San Joaquin River				0.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	05/16/2012 - 05/16/2012		11/07/2012 - 11/07/2012	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Ralph Timan		Ralph Timan	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	11/07/2012 11/07/2012	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.02	0.29	Earthen Levee	Vegetation	WS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.680705 ° -121.264343 °	37.683862 ° -121.262021 °	1 Y
DWR ID: DWR_RD2085_03_s_ 2012_1										

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2012**

**Reclamation District No. 2085 Kasson**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	0.29
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of vegetation on waterside slope. Needs to be removed.

mkhashch\_f\_20121119\_794.JPG



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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